

## SUPPORT STAND

### BACKGROUND OF THE INVENTION

#### 1. Field of the Invention

The present invention relates to a support stand, and more particularly to a support stand for a billiard table, a playing table or the like.

#### 2. Description of the Related Art

A conventional playing table comprises a table body and a support stand fixed on the bottom of the table body. However, the conventional playing table has a larger volume and has a fixed structure without detachment, thereby causing inconvenience in package, storage and transportation.

### SUMMARY OF THE INVENTION

The primary objective of the present invention is to provide a support stand for a billiard table, a playing table or the like.

Another objective of the present invention is to provide a support stand that is assembled easily and conveniently, thereby facilitating the user assembling the support stand.

A further objective of the present invention is to provide a support stand, wherein the support stand is mounted on the playing table easily and conveniently, thereby facilitating the user mounting the support stand on the playing table.

In accordance with the present invention, there is provided a support stand, comprising:

a folding board having a surface formed with a plurality of arc-shaped plates;

an upper cover mounted on an upper end of the folding board and having a bottom formed with an insert inserted into the upper end of the  
5 folding board; and

a lower cover mounted on a lower end of the folding board and having a top formed with an insert inserted into the lower end of the folding board.

Further benefits and advantages of the present invention will become  
10 apparent after a careful reading of the detailed description with appropriate reference to the accompanying drawings.

#### BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a perspective view of a support stand in accordance with the preferred embodiment of the present invention;

15 Fig. 2 is an exploded perspective view of the support stand in accordance with the preferred embodiment of the present invention;

Fig. 3 is a perspective view of an upper cover of the support stand as shown in Fig. 2;

Fig. 4 is a perspective expanded view of a folding board of the  
20 support stand as shown in Fig. 2;

Fig. 5 is an exploded perspective view of the support stand and a playing table in accordance with the preferred embodiment of the present invention;

Fig. 6 is an exploded perspective view of a support stand in accordance with another embodiment of the present invention;

Fig. 7 is a perspective expanded view of a folding board of the support stand as shown in Fig. 6;

Fig. 8 is a perspective assembly view of the support stand and a playing table in accordance with another embodiment of the present invention;

Fig. 9 is an exploded perspective view of a support stand in accordance with another embodiment of the present invention; and

Fig. 10 is a perspective assembly view of the support stand and a playing table in accordance with another embodiment of the present invention.

#### DETAILED DESCRIPTION OF THE INVENTION

Referring to the drawings and initially to Figs. 1-4, a support stand in accordance with the preferred embodiment of the present invention comprises a folding board 20, an upper cover 10, and a lower cover 30.

The folding board 20 is made of an elongated bendable material and has an oblong shape when being folded. The folding board 20 has a surface formed with a plurality of arc-shaped plates 21 and a plurality of upright plates 22. Each of the arc-shaped plates 21 has an upper end and a lower end each

formed with a plurality of screw bores 23. Each of the upright plates 22 has an upper end and a lower end each formed with a plurality of screw bores 230.

The folding board 20 has two sides each formed with a fixing plate 24 formed with a plurality of through holes 25. The fixing plates 24 of the two sides of the folding board 20 are juxtaposed to each other, and the support stand 1 further comprises a plurality of fastening bolts 40 each extended through the respective through holes 25 of the juxtaposed fixing plates 24 of the folding board 20, and a plurality of fastening nuts 41 each screwed on a respective one of the fastening bolts 40, so that the juxtaposed fixing plates 24 of the folding board 20 are combined with each other to form the closed folding board 20.

The upper cover 10 is mounted on an upper end of the folding board 20 and has a bottom formed with an insert 13 inserted into the upper end of the folding board 20. The upper cover 10 has a periphery formed with a plurality of through holes 11, and the support stand 1 further comprises a plurality of locking screws 42 each extended through a respective one of the through holes 11 of the upper cover 10 and each screwed into a respective one of the screw bores 23 and 230 of the respective arc-shaped plate 21 and upright plate 22 of the folding board 20, so that the upper cover 10 is secured on the upper end of the folding board 20.

The lower cover 30 is mounted on a lower end of the folding board 20 and has a top formed with an insert 32 inserted into the lower end of the

folding board 20. The lower cover 30 has a periphery formed with a plurality of through holes 31, and the support stand 1 further comprises a plurality of locking screws 420 each extended through a respective one of the through holes 31 of the lower cover 30 and each screwed into a respective one of the screw bores 23 and 230 of the respective arc-shaped plate 21 and upright plate 22 of the folding board 20, so that the lower cover 30 is secured on the lower end of the folding board 20.

As shown in Fig. 5, the upper cover 10 of the support stand 1 has four corners each formed with a bore 12, and the support stand 1 further comprises a plurality of locking screws 43 each extended through the respective bore 12 of the upper cover 10 and each screwed into a bottom of a playing table 101, so that the upper cover 10 of the support stand 1 is secured on the bottom of the playing table 101. Thus, the support stand 1 is mounted on the playing table 101 easily and conveniently, thereby facilitating the user mounting the support stand 1 on the playing table 101.

As shown in Figs. 6 and 7, the upright plates 22 are undefined, and the folding board 20A is only provided with a plurality of arc-shaped plates 21, so that the folding board 20A has a circular shape.

As shown in Fig. 8, the support stand 1A is secured on the bottom of a playing table 102.

As shown in Fig. 9, a support board 50 is mounted between two folding boards 20A and has two sides each clamped between the juxtaposed

fixing plates 24 of the respective folding board 20A and each formed with a plurality of through holes 51 for passage of the fastening bolts 40, so that the support board 50 is combined with the two folding boards 20A.

As shown in Fig. 10, the combination of the support board 50 and the  
5 two folding boards 20A is secured on the bottom of a table 103.

Although the invention has been explained in relation to its preferred embodiment(s) as mentioned above, it is to be understood that many other possible modifications and variations can be made without departing from the scope of the present invention. It is, therefore, contemplated that the appended  
10 claim or claims will cover such modifications and variations that fall within the true scope of the invention.